functional domains from genomic DNA or cDNA derived from a human neoplastic tissue or body fluid;

- b) analyzing the nucleotide sequence determined in step a) for the presence of mutations; and
- c) classifying the neoplasia into different subgroups depending on
 - (i) the presence or absence of a mutation, and
 - (ii) whether the patient is node positive or not; and
- d) prognosticating the development of the neoplasia by combining the results of steps c)(i) and c)(ii) and providing guidance for the treatment of the patient.

2. (Three Times Amended) The method of claim 1, further comprising the step of typing the mutation of step c)(ii) into a group selected from the group consisting of a missense mutation, a nonsense mutation, a deletion, and an insertion.

3. (Twice Amended) The method of claim 2, further comprising determining the presence and position of the mutation and categorizing biological aggressiveness and/or metastatic potential of the neoplasia based upon the presence, position, and type of mutation,

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Applic wherein said neoplasia is breast cancer.

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4. (Three Times Amended) The method of claim 1 wherein a an exon or exons of the sequenced nucleic acid encode a DNA binding domain.

5. (Twice Amended) The method of claim 1 wherein evolutionary conserved regions of the nucleic acid are analyzed.

7. (Twice Amended) The method of claim 6, wherein said neoplasia originates from a breast neoplasia.

10. (Three Times Amended) The method of claim 1, wherein step a) is carried out using an automated nucleic acid sequencer, computer software optionally being used to (i) track samples and control process steps and/or (ii) to aid in and/or interpret sequence data obtained.

14. (Three Times Amended) A method for prognostication of the development of neoplasta in a human patient having a neoplasia comprising:

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- a) determining the nucleotide sequence of all exons of a cancer-related p53 nucleic acid which encode biologically functional domains from genomic DNA or cDNA derived from a human neoplastic tissue or body fluid;
- b) analyzing the nucleotide sequence determined in step a) for the presence of mutations; and
- c) classifying the neoplasia into different subgroups depending on
 - (i) the presence or absence of a mutation, and
 - (ii) whether the patient is node positive or not; and
- d) prognosticating the development of the neoplasia by combining the results of steps c)(i) and c)(ii).
- 15. (Three Times Amended) A method for prognostication of the development of neoplasia in a human patient having a neoplasia comprising:
- a) determining the nucleotide sequence of all exons of a cancer-related p53 nucleic acid which encode biologically functional domains from genomic DNA or cDNA derived from a human neoplastic tissue or body fluid;
- b) analyzing the entire nucleotide sequence determined in step a) for the presence of mutations; and

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c) classifying the neoplasia into different subgroups depending on the presence or absence of a mutation; and

d) prognosticating the development of the neoplasia by analyzing the results of step c) only.